

# Notice of Allowability

Application No.	Applicant(s)  CHMIELEWSKI ET AL.		
10/809,471			
Examiner	Art Unit		
Alicia M. Harrington	2873		

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The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not include will be mailed in due	ed course. THIS
1. This communication is responsive to <u>amendment filed on 9</u>	<u>)/19/07</u> .		
2. The allowed claim(s) is/are <u>3-7 and 9-19</u> .		·	
<ol> <li>Acknowledgment is made of a claim for foreign priority unally all blooms. Some* clooms of the:         <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Topies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* Certified copies not received:         <ol> <li>Applicant has THREE MONTHS FROM THE "MAILING DATE"</li> </ol> </li> </ol>	been received. been received in Application No cuments have been received in this r	national stage applica	
noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ENT of this application.	complying with the rec	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER' es reason(s) why the oath or declarate	S AMENDMENT or N tion is deficient.	OTICE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	t be submitted.		
(a) $\square$ including changes required by the Notice of Draftspers	on's Patent Drawing Review ( PTO-9	948) attached	•
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>	Amendment / Comment or in the O	ffice action of	
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawin ne header according to 37 CFR 1.121(c	gs in the front (not the	back) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIAL m FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. N AL MATERIAL.	Note the
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Informal Pa	atent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary ☐ Paper No./Mail Date	(PTO-413),	
Information Disclosure Statements (PTO/SB/08),     Paper No./Mail Date	7. Examiner's Amendm	nent/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	nt of Reasons for Allo	wance
C. Diological Material	9.  Other		
			. •

### **DETAILED ACTION**

## **Drawings**

The drawings were received on 9/19/07. These drawings are acceptable.

## Allowable Subject Matter

Claims 3-7,9-19 are allowed.

The following is an examiner's statement of reasons for allowance: Prior art fails to teach an eye tracking system comprising a horizontal line camera, vertical line cameral, a processor and a beam splitter configured to reflect a portion of an image of the eye onto one of the horizontal line camera and the vertical line camera and to pass a portion of the image of the eye onto the other one of the cameras as claimed in line 3; an optical element configured to optically focus an image of eye onto at least one of the horizontal and vertical line cameras before the image is captured by the at the least one of the camera as claimed in line 4; further including multiple controlled visible light sources coupled to the processor, wherein the processor controls the multiple light source individually to induce eye motion, and the processor further includes a statistical analyzer for comparing the tracked eye motions of a user to eye motion data derived from user to determine a measure of fitness as claimed in claim 5; a first beam splitter configured to reflect a portion of an image of the eye onto the horizontal line camera; a second beam splitter configured to reflect a portion of the image of the eye onto the vertical line camera; wherein the horizontal and vertical line cameras are configured to be outside of a field of view of the eye and the first and second beam splitters are configured to pass a portion of an image of a scene in the field of view of the eye to the

eye as claimed in claim 6; at least one infrared illuminator configured to illuminate the eye as images are being captured by the horizontal and vertical line cameras, the at least one infrared illuminator and the horizontal and vertical line cameras being controlled by the processor to control a rate at which sampled images are obtained from the horizontal and vertical line imagers as claimed in claim 7; a visible light illuminator configured to illuminate the eye as images are being captured by the horizontal and vertical line cameras, the visible light illuminator being controlled by the processor to induce contraction of the iris of the eye; and a pupil size monitor, in the processor, for tracking changes in size of the pupil of the eye in response to illumination of the eye in response to the visible light illuminator as claimed in claim 9; Regarding claim 11, prior art fails to fairly suggest an eye tracking system for tracking eye motion of a user having first and second eyes comprising a horizontal line camera configured to capture a horizontal image of at least a portion of the first eye of the user and a vertical line camera configured to capture a vertical image of at least a portion of the second eye of the user where the processor processes signal from horizontal and vertical line images of the eye to track motion of the eye as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Art Unit: 2873

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia M. Harrington whose telephone number is 571 272 2330. The examiner can normally be reached on Monday - Friday 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Mack can be reached on 571 272 2333. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alicia M Harrington Primary Examiner Art Unit 2873

**AMH**